

CLAIMS.

1. Use for preparing polypropylene blends of:

- (a) an isotactic polypropylene component A that is crystalline and is formed using a metallocene catalyst; and
- (b) a syndiotactic polypropylene component B that is less crystalline than component A and is formed using another metallocene catalyst;

said blends being characterised in that their molecular weight distribution has a single peak and their polydispersity is of at most 4.

- 2. The use of claim 1 wherein the polypropylene blend has a polydispersity of from 2 to 3.
- 3. The use of claim 1 or claim 2 wherein the polypropylene blend has a melting temperature of from 130°C to 155°C.
- 4. The use of any one of claims 1 to 3 wherein the polypropylene blend comprises up to 15 wt% of syndiotactic polypropylene.
- 5. The use of any one of claims 1 to 4 wherein the polypropylene blend is prepared in a single reaction zone from a catalyst system comprising the two single site catalyst components.
- 6. A polypropylene fibre formed from the polypropylene blend as defined in any of claims 1 to 5.
- 7. A fabric produced from a polypropylene fibre as defined in claim 6.

8. A product comprising a fabric as defined in claim 7, the product being selected from a filter, personal wipe, diaper, feminine hygiene product, incontinence product, wound dressing, bandage, surgical gown, surgical drape, protective cover, geotextiles and outdoor fabrics.
9. A method for producing a polypropylene blend comprising:
 - (a) an isotactic polypropylene component A that is crystalline and is formed using a metallocene catalyst; and
 - (b) a syndiotactic polypropylene component B that is less crystalline than component A and is formed using a metallocene catalyst;

which method comprises polymerising monomers to produce components A and B in the same reaction zone using a metallocene catalyssystem comprising the two single site catalyst components.

10. Use of a polypropylene blend as defined in any of claims 1 to 5, to improve the thermal bonding characteristics of a polypropylene fibre.